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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

UTILITY
PATENT APPLICATION
TRANSMITTAL

Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 426882000400

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First Named Inventor or Application Identifier

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APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ Fee Transmittal Form [Total Pages 2] (Submit an original, and a duplicate for fee processing)
2. ☒ Specification [Total Pages 23] (preferred arrangement set forth below)
- Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. ☒ Drawing(s) (35 USC 113) [Total Sheets 8]
4. ☒ Oath or Declaration [Total Pages 2]
- a. ☐ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63(d) (for continuation/divisional with Box 17 completed) [Note Box 5 below]
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)
5. ☐ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☒ Assignment Papers (cover sheet & document) (2 pages)
9. ☒ 37 CFR 3.73(b) Statement with copy of Assignment (2 pages) ☒ Power of Attorney (2 pages)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
14. ☐ Small Entity Statement(s) ☐ Statement filed in prior application, Status still proper and desired
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☒ Title page (1 page).....

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No:

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- ☒ If a paper is untimely filed in the above-referenced application by applicant or his/her representative, the Assistant Commissioner is hereby petitioned under 37 C.F.R. § 1.136(a) for the minimum extension of time required to make said paper timely. In the event a petition for extension of time is made under the provisions of this paragraph, the Assistant Commissioner is hereby requested to charge any fee required under 37 C.F.R. § 1.17(a)-(d) to **Deposit Account No. 03-1952**. However, the Assistant Commissioner is **NOT** authorized to charge the cost of the issue fee to the Deposit Account.

The filing fee has been calculated as follows:

FOR	NUMBER FILED	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL CLAIMS	12 - 20 =	- 0 -	x \$18.00	\$0.00
INDEPENDENT CLAIMS	5 - 3 =	- 2 -	x \$78.00	\$156.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$260.00	\$0.00
			BASIC FEE	\$690.00
TOTAL OF ABOVE CALCULATIONS =				\$846.00
Reduction by 1/2 for filing by small entity (Note 37 C.F.R. §§ 1.9, 1.27, 1.28). If applicable, verified statement must be attached.				\$0.00
Assignment Recording Fee (if enclosed)				\$40.00
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Applicant(s) hereby petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees or to credit any overpayment to **Deposit Account No. 03-1952** referencing docket no. 426882000400.

Dated: September 22, 2000

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UNITED STATES PATENT APPLICATION
FOR
**A METHOD AND SYSTEM FOR AN ELECTRONIC PROCUREMENT
SYSTEM FOR STATE GOVERNMENTS**

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A METHOD AND SYSTEM FOR AN ELECTRONIC PROCUREMENT SYSTEM FOR STATE GOVERNMENTS

TECHNICAL FIELD

5 This invention relates to the field of electronic procurement systems.
More particularly, the present invention relates to a method and system for an
electronic procurement system for state governmental use.

BACKGROUND ART

10 A technical problem presently exists in the attempt to use modern day
computing technology in state governments. Generally the problems facing state
agencies when they attempt to upgrade their systems are the same as those facing
any business today. That is, huge investments in legacy data processing systems
15 and personnel training cannot be discarded and quickly replaced with more
modern Internet-based, business-to-business type systems without large
expenditures of time and money. In state governments these problems are
exacerbated by the difficult and time-consuming legislative appropriations
process. Data processing operating and development budgets are typically
20 prepared annually by each State Agency with some states consolidating these
types of budgets into one Information Technology Services budget. However, the
requests for more and more budgeted funds to develop new eCommerce systems
are becoming increasingly more difficult to get quickly considered by the various
agencies, departments and bureaus of the state, and ultimately considered and
25 passed by the legislative budget and spending committees. Moreover, recent
highly publicized expensive system development failures, such as one state's \$50
million dollar Department of Motor vehicle Registration System which failed to
work, make the legislators reluctant to spend the time to try to be assured that a
proposed new data processing system will work, and will be as cost effective as
30 proposed.

 Accordingly there is a need for a new funding model wherein the services
suppliers can partner with the state to make use of currently existing portals,

processing facilities and eCommerce services such as electronic payment processing, auctioning, calendaring, etc., whereby this partnering can benefit both the state through lower development and operating costs, and benefit the service provider through development and service fees funded partially by the state and partially by the vendors and clients doing business with the state. Such a model could ease the budgeting burden on the state for development systems by using already existing eCommerce systems of the service provider and can provide operational funding to the service provider through lower usage fees to the state and through new fees paid by the vendors and other clients of the state services.

One of the areas of State Government which has been partially automated in some states and for some time is the area of procurement of state supplies. Supplies ranging from motor vehicles purchase and registration, to office furniture and supplies, to special supplies to particular agencies like police departments, fire and public safety departments, jails, courts and other related legal services. The consolidation of many of these services has not been possible in the past generally because of the legacy investments and high cost of replacement systems. Internet-based eCommerce systems have made this now a tractable problem to solve. For example, as reported in the Wednesday, May 10, 2000 edition of InternetWeek at www.internetwk.com, an article titled "Auctions Pay Dividends for Gov't" points out that the federal government has "plunged into the world of online auctions for buying goods and selling surplus items." The article points out that "online auctions will reduce overhead" . . . and provide "a means for increas[ing] government buyer's options." The Federal Supply Services (FSS) (which buys \$17 Billion annually) auctioned off surplus items last year on the Internet including more than 100,000 items for \$260 million using the eBay auction model. The article goes on to indicate the U. S. Navy and the naval Supply Systems Command is using existing eCommerce systems to save tax dollars in procurements and improve service to their customers, reporting in one instance a saving of 29% from a budgeted \$3.3 million purchase of ejector seat components.

5 These is a need in the art for a system and method for a new model of Internet-based procurement systems which can minimize the state's development costs by using existing Internet proven eCommerce solutions, can save the state money in procurement costs, related overhead costs and can reduce the need for excess budgets, and can gain these benefits through vendor participation fees and client transaction fee usage.

SUMMARY OF THE INVENTION

The present invention provides a solution to the needs described above through a system and method for an Internet-based electronic procurement and funding system for state governments.

A system is disclosed for providing electronic procurement services to a state government agency at a price to the government agency which will permit the government agency to share in savings resulting from using proven internet-based services and existing procurement sub-systems, and supporting service related fees from participating vendors and customers.

A method is disclosed for a state procurement system comprising the acts of providing an Internet-based procurement system for use by a state government agency; providing an internet portal for use by the state government agency to interface with the Internet-based procurement system; providing an internet portal for use by a qualified vendor wishing to sell products to the state agency, the fee paid to the services provider; and providing the procurement system to the state government agency for a negotiated price to the state government agency designed to generate direct savings to the state government agency.

Still other embodiments of the present invention will become apparent to those skilled in the art from the following detailed description, wherein is shown and described only the embodiments of the invention by way of illustration of the best modes contemplated for carrying out the invention. As will be realized, the invention is capable of modification in various obvious aspects, all without departing from the spirit and scope of the present invention. Accordingly, the drawings and detailed description are to be regarded as illustrative in nature and not restrictive.

BRIEF DESCRIPTION OF THE DRAWINGS

The features and advantages of the system and method of the present invention will be apparent from the following description in which:

5 **Figure 1** illustrates an exemplary Internet distributed system configuration.

Figure 2 illustrates a representative general purpose computer server configuration.

Figure 3 illustrates a block diagram of the general prior art system of procurement by state governments today.

10 **Figure 4** illustrates a block diagram of a preferred embodiment of the process of state Internet-based procurement of the present invention.

Figure 5 illustrates a chart of a preferred embodiment depicting the general functional data flow in the procurement system.

15 **Figure 6** illustrates an overview chart of an eProcurement Model of the present invention.

Figure 7 illustrates a chart of a Business Model Overview of the present invention.

20 **Figure 8** illustrates a chart of a preferred embodiment depicting a typical architecture configuration of an exemplary eProcurement system showing existing functionalities.

DETAILED DESCRIPTION OF THE INVENTION

The present invention provides a solution to the needs described above through a system and method for an Internet-based electronic procurement (hereinafter eProcurement) and funding system for state governments.

OPERATING ENVIRONMENT

The environment in which the present invention is used encompasses the general Internet-based systems hardware and infrastructure along with well known electronic transmission protocols both conventional and wireless.

Some of the elements of a typical Internet network configuration are shown in **Figure 1**, wherein a number of client machines **105** possibly in a state government agency, are shown connected to a gateway/hub/tunnel-server/etc. **106** which is itself connected to the internet **107** via some internet service provider (ISP) connection **108**. Also shown are other possible clients **101**, **103** similarly connected to the internet **107** via an ISP connection **104**, with these units communicating to possibly a vendor office via an ISP connection **109** to a gateway/tunnel-server **110** which is connected **111** to various enterprise application servers **112**, **113**, **114** which could be connected through another hub/router **115** to various local clients **116**, **117**, **118**. Any of these servers **112**, **113**, **114** could function as an eProcurement server of the present invention, as more fully described below.

An embodiment of portions of the eProcurement System of the present invention can operate on a general purpose computer unit which typically includes generally the elements shown in **Figure 2**. The general purpose system **201** includes a motherboard **203** having thereon an input/output ("I/O") section **205**, one or more central processing units ("CPU") **207**, and a memory section **209** which may have a flash memory card **211** related to it. The I/O section **205** is connected to a keyboard **226**, other similar general purpose computer units **225**, **215**, a disk storage unit **223** and a CD-ROM drive unit **217**. The CD-ROM drive unit **217** can read a CD-ROM medium **219** which typically contains programs **221**

and other data. Logic circuits or other components of these programmed computers will perform series of specifically identified operations dictated by computer programs as described more fully below.

5 A typical configuration of eProcurement functions performed in the prior art is shown in **Figure 3**. In **Figure 3** an exemplary state government **301** is shown with a plurality of agencies **303 - 311**. These various agencies make use of almost every combination of interface with their clients, customers and vendors.

Also shown are a plurality of vendors **323, 335, 337, 345, 349, 353 and 357**. These vendors typically are required to be qualified by the state (much like the Federal Supply Catalogue System) whereby items sold and their prices are made available to state purchasers, who can select which item and from which qualified vendor they may purchase the item. The connection from the various agencies to the various vendors ranges from U. S. Mail or facsimile, as indicated in connection **355** from agency **311** to vendor #7 **357**. Some agencies (such as **307**) may be hard wired to the data processing system **341** of a vendor **345 or 349**. Some agencies **303** have Internet connections **313, 315, 317** to a legacy data processing system **319** at a vendor **323**. And some agencies like **305** may have Internet connections **325, 315, 327** to a service provider **329** which also can have Internet connections such as **331, 333, 334** to vendor # 2 **335**, and such as **331, 333, 336** to vendor # 3 **337**. Moreover, such systems have no mechanisms for auctioning surplus state agency supplies over these networks. Neither is it usual for some of the plurality of agencies to consolidate purchases over multiple vendors because of the inflexible procurement channels.

THE INVENTION

Referring now to **Figure 4** a preferred embodiment of the state government eProcurement system is depicted. In **Figure 4** in an exemplary state government **401** a number of state government agencies **403, 405, 407, 409, 411** are shown, with each agency connected via an electronic communications channel **413** to the Internet **415**, which in turn is connected via a communications channel **416** to an exemplary eProcurement system **418**. The eProcurement system **418** is comprised of a number of server systems **417, 419, 421, 423** which may be interconnected and which contain the logic means for coupling the state government agencies to a vendor or customer, for providing the procurement means for buying and selling goods or services electronically, including electronic contracting and payment mechanisms, inventory control mechanisms, order tracking mechanisms and the like. The eProcurement system **418** is also electronically connected to the Internet **415** for subsequent connection to various qualified vendors or state customers **417, 419, 421, 423, 425, 427, 429**. Those skilled in these arts will recognize that exemplary communications channels **413, 431** to and from the Internet **415** may be hard wired or wireless communications channels using any of a number of well known communications protocols.

Referring now to **Figure 5** an exemplary transaction is described. In **Figure 5** when a purchase request is received **501** from a state government agency, the request may be in any number of formats and/or protocols. The purchase request is converted to a standard format and protocol **503** and a qualified vendor is located **505**. A request is submitted to the determined vendor **507** and a determination is made as to whether the specified vendor call fill the order **509**. If the vendor cannot **511** another vendor will be selected if possible **517** and the request submitted **507** again. If another vendor cannot be found **519** the requesting state government agency will be notified **521, 523**. If the selected vendor can fill the order **513** the order is placed **525** and order tracking records are written. Once the goods/services have been received and accepted **527**, accounting entries are set up for the cost to the agency to disburse funds **529**, and payment is

made using the business model rules calculation **531** for the amounts due to the vendor **533** and the fee amounts to be put into the eProcurement Reserve Fund **535**. The fees due to Andersen Consulting™ per the business model are distributed **537** and the distribution is made to the eProcurement Service Provider partner **539**.

Referring now to **Figures 6 and 7** a general description of the Business Model and its objectives is presented.

The purpose of the business model is to provide a mechanism for the State to make substantial progress towards the E-Commerce objectives including better citizen and business services at a lower cost. One strategy is to develop a self-funding mechanism to pay for the development and operational services to be provided by the Service Provider. For example, Andersen Consulting/Yahoo! team. The self-funding business model that is proposed is targeted to meet a number of key objectives critical to the state's needs.

1) The self-funding model “produces” a new source of funding for the proposed projects. This eliminates the need for a separate budget and requires no up-front money from the State.

2) Allows for the delivery of the statewide business, citizen and employee portals.

3) Provides the State with a strong coordinated management approach to the E-Commerce activities of the State.

4) Provides an important and much needed E-Procurement capability substantially faster than otherwise possible.

5) Provides very efficient access to already developed E-Commerce capabilities such as electronic payment processing, auctioning, calendars, etc.

6) Provides an attractive and “sticky” solution that not only will attract interest to the portals but will entice users to be engaged based on the additional content and capabilities provided. A key to the success of E-Commerce initiatives is to get the users to the site. Integration of well known

Internet Service Providers with the State Portals provides the foundation to increase attractiveness and accessibility.

The proposed business model framework is described below. It will be necessary as a state government agency begins to use the system for the agency to validate the model, have input into the proposed assumptions, and mutually create the best business model for the State. The final business model must be agreed upon in writing by the State and the Services Provider team.

The business model can be broken down into two basic components: 1) **services to be provided** and 2) **funding sources**. The objective is to identify and generate funding sources to cover the cost of providing the services in the business model. The business model should provide a flexible means to adjust the components to reach a mutually agreed upon balance between funding sources and services provided.

The services which could be provided include the following:

1) Project Management Office—This would include the resources to assist in the management of the E-Commerce office for the duration of the contract.

2) State Portals—This would include the design, build and running of the State Portals for businesses, citizens and state employees for the duration of the contract. Running of the statewide portal includes the hosting of portal operations including hardware, software and operations support and the Help Desk support.

3) E-Procurement—This would include the design, build and running of the statewide E-Procurement system including a trade exchange capability. Similar to the State Portals it includes the hosting of this capability and the Help Desk support.

4) Transactions—This would include the processing of mutually selected transactions to be developed as part of the E-Commerce initiatives such as licensing, registration etc. These transactions could be developed by

the State, other vendors, or, if the State desires, by the Services Provider team. This integration of transactions would then be incorporated under the portal services described above. In other words, this model does not assume all transactions would be developed by the Services Provider team.

5 5) Other Initiatives—There may be other initiatives that arise from time to time that the State would want to include. Based on the revenue being generated this may a) be incorporated and have no net effect on the business model, b) require a change in parameters in the funding sources (e.g. increased supplier fee), c) require a change in scope of some of the above projects or
10 other mutually agreed upon changes.

The funding sources which could support the above services include:

1) Budgeted Funds – Existing or new budgeted funds could be used to fund the services of the Electronic Commerce Project Office or State Portal.

15 2) Supplier Fees - Suppliers would pay a minimum fee (% of goods and services sold to the State – e.g. 2-4%) to the Services Provider team for all activity conducted using the E-Procurement system. An illustrative example of the projected ramp-up of agencies and the target percentage of all procurement spending processed by the E-Procurement system, to be confirmed during a start-up period, would be as follows:

20 3)

Agencies	Month 6	Month 12	Month 18	Month 24	Month 36
ITS (pilot)	10%	60%	70%	70%	70%
Executive Branch					
25 Group 1	0%	20%	40%	60%	70%
Group 2	0%	0%	20%	40%	60%
Group 3	0%	0%	10%	30%	60%

30 In the above example, suppliers to ITS would begin participating in the E-Procurement system during a six-month pilot. The supplier price would

include a fee paid to the Services Provider team based on the dollar value of E-Procurement transactions. The State would be responsible for generating the agencies' participation at the targeted levels.

5 4) Strategic Sourcing – Strategic Sourcing is a technique used to obtain the same or similar goods and services to the State at a lower cost than is currently being paid. This is accomplished by conducting fact based negotiations using market data and volume purchasing potential. Also, the Services Provider team may have pre-negotiated prices with suppliers which are lower than the State's current price. Savings generated through strategic
10 sourcing will be accrued to the self-funding pool. A ceiling for strategic sourcing savings will be established and savings above the ceiling will be shared with the State.

15 5) Administrative Cost Savings – Cost savings derived from improved efficiencies resulting from the utilization of E-Procurement automation will provide benefits to the State. Experience has demonstrated a significant savings in procurement costs using E-Procurement. Again, a method would be established for the incorporation of these savings into the self-funding model – e.g. 50% of all savings would be incorporated into the self-funding pool.

20 6) Transactions – Transactions are intention based activities performed by citizens or businesses in interaction with the State. Examples include licenses, registration, inquiries etc. These transactions may have a fee associated with them and this fee would be part of the self-funding sources.

25 7) Subscription Services - Subscription services are standard monthly access fees charged users to allow access to a series of services, information or other transactions that improve the efficiency of their interaction with the portal provider. These fees would be part of the self-funding sources as allowed by law.

Services to be provided to the State in the self-funding model would be agreed to by the State and the Services Provider team. The more services to be provided through the self-funding model by the Services Provider team, the greater the commitment by the State to the acquisition of the funding sources identified above. But more importantly the business model provides the framework for self-funding of significant E-Commerce activities. It has been developed with flexibility in mind and is designed to meet the requirements of the State.

The goal of the self-funding business model is to manage the proper balance of funding sources against the cost of providing services. The business model is an on-going management tool and resource. As the scope of services or other activities change or as the ability to derive funding sources adjust, the State and the Services Provider team will monitor the business model impact. The goals for both parties should be to maintain the incentives for mutual success. The following are examples of business model adjustments that may be required during this project:

1) Excess Funding – To the extent that a surplus is generated or projected, a method for sharing these amounts would be determined during the due diligence period. For example, with strategic sourcing there may be a ceiling set whereby if the sourcing provides savings greater than an established percentage, this excess would be split equally between the State and the Services Provider team.

2) Insufficient Funding – To the extent that a deficit is generated or projected, a method for adjusting to the situation would be determined during the due diligence period. For example, if the State commits to a level of purchases being processed by the E-Procurement system and this level is not reached, a number of options would exist including increasing the supplier fees, a reduction in the scope of services being provided, resources being supplemented by the State (e.g. help desk), infusion of supplemental funding by the State, or some other modification to the business model formula.

A brief description of the E-Procurement solution and a summary of the anticipated roles and responsibilities of each party are as follows:

5 **The E-Procurement solution can, subject to mutual agreement by the State and the Services Provider team:**

1. Allow State employees to research, compare and select products from online catalogs, subject to the business rules of the State.
2. Create requisitions for items selected through online shopping.
- 10 3. Route requisitions for approval, consistent with State of North Carolina and agency-level business rules, and provide information on requisition status.
4. Transmit approved purchase orders to vendors.
5. Provide automated receipt for delivered items, and include ability to record condition of receipt and vendor performance.
- 15 6. Receive electronic invoices and make electronic payment to vendors for items received.
7. Allow State employees to post RFQ and post/receive bid (“reverse auction”) documents to selected vendors, and facilitate State evaluation of bids.
- 20 8. Allow the State to perform auctions of surplus State property, and other items as appropriate.

Implementation of the E-Procurement solution will be completed in phases. The State and the Services Provider team will agree in advance to the order in which the capabilities are rolled out.

25

The Services Provider team will:

1. In consultation with the State, choose, hold license to, and customize for the State, an E-Procurement solution based substantially upon an existing leading solution in the marketplace.

5 2. In consultation with the State, choose, hold license to, and configure the E-Procurement infrastructure, including hardware, software, and database management software, from among the leading solutions in the marketplace, consistent with the State's technical architecture.

10 3. Host the E-Procurement solution to enable State employee access from the desktop.

4. Reach out to identified State vendors to involve them in the service. Identification of vendors will be done in consultation with the State. High dollar and high transaction volume vendors will be prioritized over low transaction volume vendors.

15 5. Individually negotiate with selected vendors an appropriate fee that the vendor will pay to the Services Provider for its transaction volume through the service.

6. Support the State's desire to include in the E-Procurement service small businesses, disadvantaged businesses, and State-based businesses.

20 7. Support the State in negotiating with suppliers for additional volume or sourcing discounts, based on E-Procurement spend data. These "strategic sourcing" benefits will be shared by the Services Provider team and the State on a mutually agreed-upon, case-by-case basis.

25 8. Train an initial group of users on the service, so that they can in turn train other State employees as the service is rolled out.

9. Provide help desk support.

The State will, as allowed by law:

1. Choose the vendors with whom the State wants to do business.
2. Grant to the Services Provider team the exclusive right to provide E-Procurement service to the State for the duration of this contract.
- 5 3. Make good faith efforts to transact all applicable purchases through the service.
4. Continue this arrangement for a minimum period of three years. If the State chooses to discontinue the service after three years, a fourth year of service will be required to appropriately transition responsibilities to the State.
- 10 5. Mandate vendor participation in the service and vendor payment of fees to the Services Provider team through the contract and transition period.
6. Guarantee a minimum vendor participation fee (percentage) that each vendor would pay to the Services Provider team per transaction.
- 15 7. Commit to determine a minimum dollar level of transactions through the system for years one, two and three of implementation and the transition period.
8. Provide knowledgeable State resources and cooperation for the integration of applicable State systems.
- 20 9. Provide communications and specialists to assist in change management efforts.
10. Train state employees on use of the service.

As a first step toward E-Procurement implementation, the Services Provider team and the State should together complete a due diligence effort to more precisely define the E-Procurement goals for the State. This should take a

25 period of about four weeks after start date. Due diligence tasks include:

1. Develop a detailed financial model for the E-Procurement effort.
- Information required for this model includes:

- Annual spend (\$ and number of transactions) by commodity type.
- Annual spend (\$ and number of transactions) by vendor.
- Annual spend by agency (\$ and number of transactions by commodity type and vendor).

5 2. Determine the extent to which ancillary government and non-profit purchasing within the State (units of local government, universities, hospitals, other non-profit or educational agencies) can be incorporated into the service.

3. Estimate percentage take-up of the service for years one, two, and three.

10 4. Estimate number of State users of the service.

5. Develop a detailed scope statement and work plan for implementation of the E-Procurement service. The scope statement and work plan will define:

15 ▪ Extent of consulting services required for basic E-Procurement implementation.

▪ Extent of back-end systems integration necessary for the E-Procurement effort to be a success and required consulting support for integration. No additional integration services are anticipated to facilitate participation by interested ancillary government and non-profit purchasing entities (units of local government, universities, hospitals, etc.).

20 ▪ Agencies, vendors and commodity types to be prioritized for early phases of E-Procurement implementation.

▪ Service level agreement.

25 6. Develop mutual incentives for program success and a methodology to share financial returns in excess of anticipated levels. Returns in excess of anticipated levels could result from any of the following:

- Services Provider negotiates a participation fee from a vendor that exceeds some mutually-agreed level.

- The dollar volume of State purchases through the system exceeds the anticipated level.

5 ▪ Additional organizations are added (hospitals, units of local government, etc.) and their dollar volume causes the total volume to exceed the anticipated level

EXEMPLARY SYSTEM ARCHITECTURE

10 Referring now to **Figure 8** an exemplary system architecture for an eProcurement system is described. In **Figure 8** a number of client machines **801 - 805** in a state government agency are shown connected to a Gateway/Hub/Tunnel-server/etc. **811**, which is connected to the Internet **821** via some ISP connection **831**. Through this ISP a connection is made to the eProcurement system and ERP running the accounting and purchasing modules **841**, integrated with the

15 eProcurement trading partner catalogues/supplier information/processes **851**, connected via the Internet **821** to the vendor clients **861, 862, 863**.

 Having described the invention in terms of a preferred embodiment, it will be recognized by those skilled in the art that various types of general purpose computer hardware may be substituted for the configuration described above to

20 achieve an equivalent result. Similarly, it will be appreciated that arithmetic logic circuits are configured to perform each required means in the claims for performing the various features of message recognition, message creation, message storage and connection to a mobile telephony system. It will be apparent to those skilled in the art that modifications and variations of the preferred

25 embodiment are possible, such as different mobile telephony systems may be used, different communications media such as wireless communications, as well as different types of PCDs may be used by addressees and or senders of various types of electronic messages, all of which fall within the true spirit and scope of the invention as measured by the following claims.

CLAIMS

We claim:

- 5 1. A computer related method for funding a state government procurement system comprising the acts of:
- a. providing an internet-based procurement system by a services provider for use by a state government agency for procurement of goods and services;
- b. providing an Internet portal for use by the state government agency to communicate electronically with the internet-based procurement system; and
- 10 c. providing an Internet portal for use by a qualified vendor wishing to sell goods and/or services to the state government agency, whereby the vendor pays a fee to the services provider for an opportunity to be connected to the internet-based procurement system.
- 15 2. The method of claim 1 comprising an additional act of providing the internet-based procurement system to the state government agency for a negotiated price payable to the services provider wherein the negotiated price is designed to provide direct cost savings to the state government agency over other methods of procuring equivalent goods or services.
- 20 3. The method of claim 2 comprising an additional act of providing an Internet portal for a customer of the state government agency, whereby the customer can execute an electronic transaction, via the internet-based procurement system, with the state government agency in exchange for a fee
- 25 payable to the services provider.
4. The method of claim 2 wherein the state government agency is able to use the internet-based procurement system to sell by auction or other methods, obsolete or excess inventory held by the state government agency to interested
- 30 buyers.

5. A computer based method for a state government procurement system comprising the acts of:

a. providing an internet-based procurement system by a services provider for use by a state government agency for procurement of goods and services, where the internet-based procurement system is funded by fees comprising payments from participating vendors, payments by investment from the services provider, payments by transaction fees collected from users of the internet-based procurement system and payments by reduced fees from the state government agency; and

b. providing an Internet portal for use by the state government agency to communicate electronically with the internet-based procurement system to communicate electronically with vendors for goods or services desired by the state government agency.

6. The method of claim 5 comprising an additional act of providing an Internet portal for use by a qualified vendor wishing to sell goods and/or services to the state government agency, whereby the vendor pays a fee to the services provider for the opportunity to be connected to the internet-based procurement system.

7. The method of claim 6 comprising an additional step of providing an Internet portal for a customer of the state government agency, whereby the customer can execute an electronic transaction, via the internet-based procurement system, with the state government agency in exchange for a fee payable to the services provider.

8. The method of claim 6 wherein the state government agency is able to use the internet-based procurement system to sell by auction or other methods, obsolete or excess inventory held by the state government agency to interested buyers.

9. A system for providing Internet-based electronic procurement services to a state government agency, comprising:

- a computer having a processor, a memory, a database, and communications connections to the Internet, the computer provided by a services provider;
- a first server mechanism coupled to the computer for providing procurement channels between buyers and sellers of goods and services;
- a second server mechanism coupled to the first server mechanism for communicating with an Internet portal in the state government agency; and
- a third server mechanism coupled to the computer for communicating with a qualified vendor of goods or services who is willing to pay a fee to the services provider for the opportunity to deal with the state government agency, the fee providing a basis for reducing the price of the procurement system to the state government agency.

10. A system for implementing a computerized eProcurement system for a state government agency, comprising:

a server computer hosting an eProcurement system accessible via client computers to a plurality of state government agencies who comprise potential buyers of goods and/or services, said eProcurement system including a user interface (UI) comprising controls whereby a state government agency user selects criteria and a display whereby results are displayed ;

a database of information electronically coupled to the server computer concerning goods and services available from a plurality of a qualified vendors of goods or services who are willing to pay a fee for the opportunity to deal with the state government agency ;

whereby said eProcurement system is available via the Internet to assist a state government agency buyer in locating a product or service of interest and in locating a specific qualified vendor.

11. The system of claim 10 wherein the computerized eProcurement system for a state government agency is provided by a services provider for use by the state government agency for procurement of goods and services, where the computerized eProcurement system is funded by fees comprising payments from participating vendors, payments by investment from the services provider, and payments by transaction fees collected from users of the computerized eProcurement system.

12. An internet based method for use in an eProcurement system by a state government agency comprising the following acts:

providing a web site having a user interface (UI), wherein the UI includes user input and display windows for use by a state government agency user;

receiving at the web site user inputs indicative of a desired product or service;

determining from a database whether the desired product or service is available from a qualified vendor wishing to sell goods and/or services to the state government agency, whereby the vendor pays a fee to a services provider for the opportunity to be connected to the eProcurement system; and

providing information regarding the availability of the desired product or service to the state government agency user, wherein the cost of the eProcurement system is funded by fees comprising payments from participating vendors, payments by investment from the services provider, payments by transaction fees collected from users of eProcurement system and payments of reduced fees from the state government agency.

**A METHOD AND SYSTEM FOR AN ELECTRONIC PROCUREMENT
SYSTEM FOR STATE GOVERNMENTS**

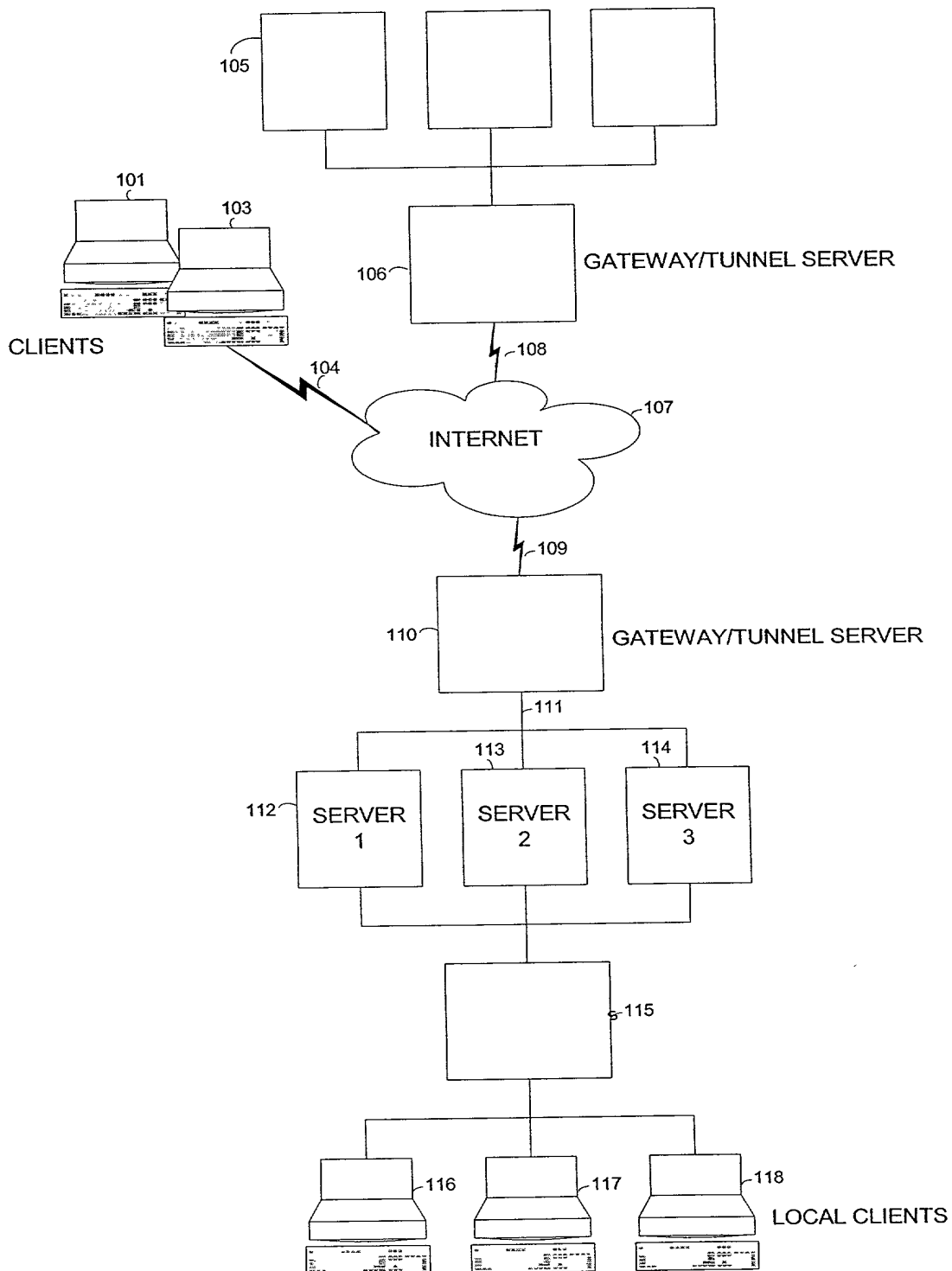
ABSTRACT OF THE DISCLOSURE

5 A system is disclosed for providing electronic procurement services to a
state government agency at a price to the government agency which will permit
the government agency to share in savings resulting from using proven internet-
based services and existing procurement sub-systems, and supporting service
related fees from participating vendors and customers.

10

Figure 1

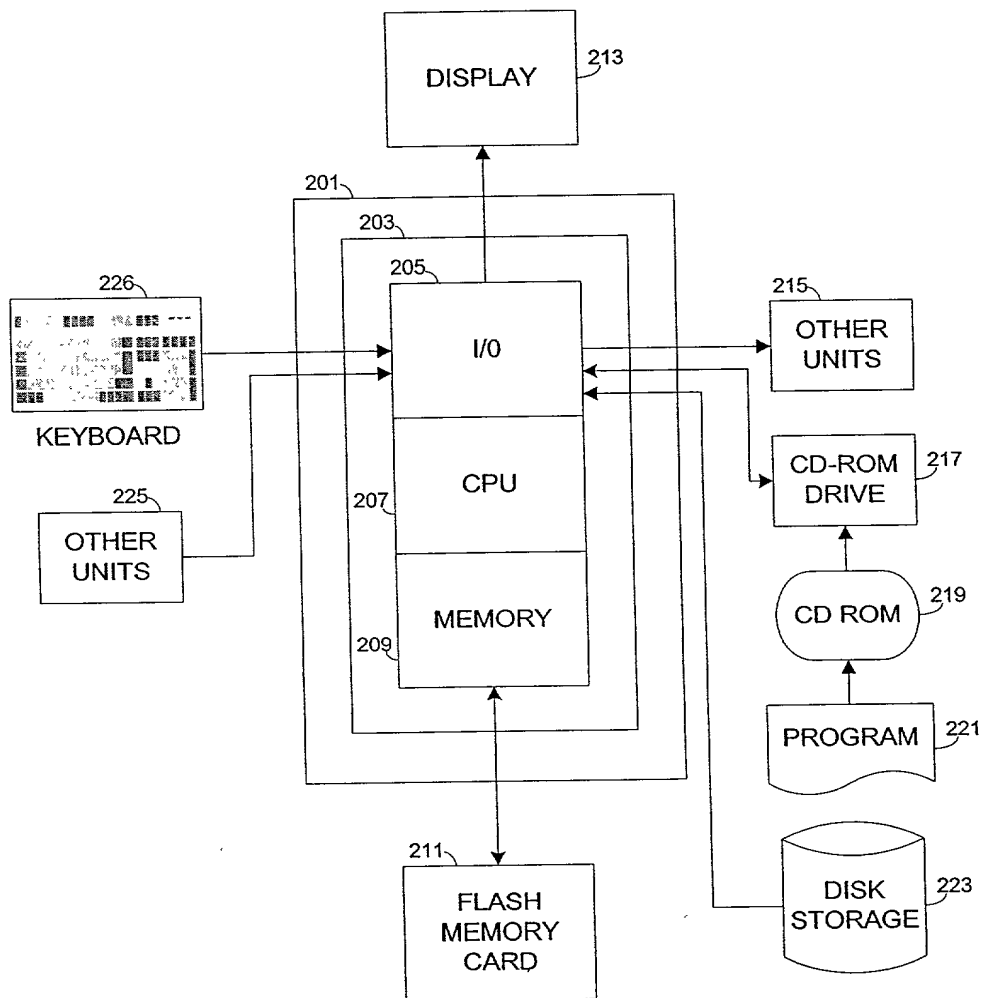
100 ⇒ Typical Internet Network Configuration



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Figure 2

200 Typical General Purpose Computer/



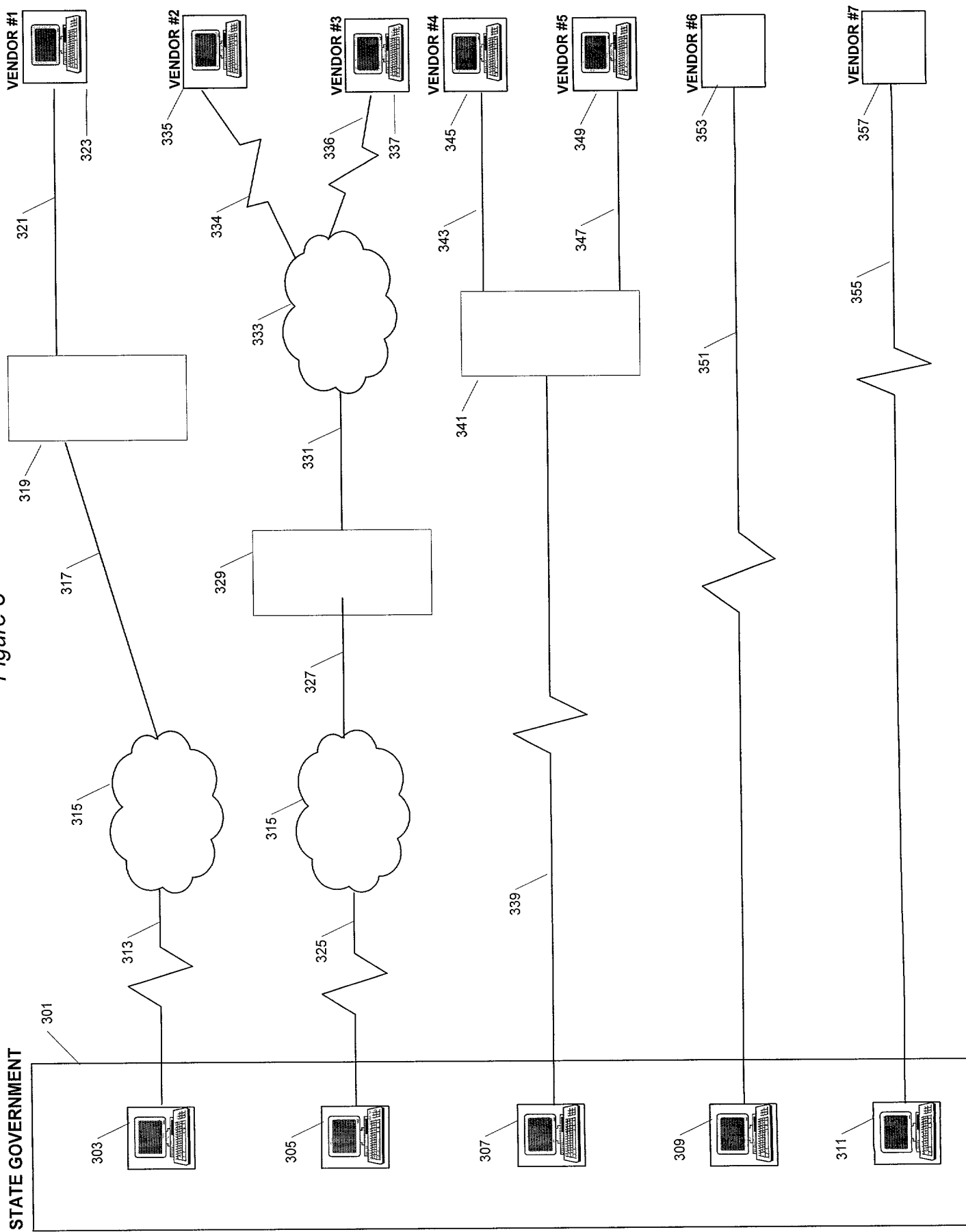


Figure 4

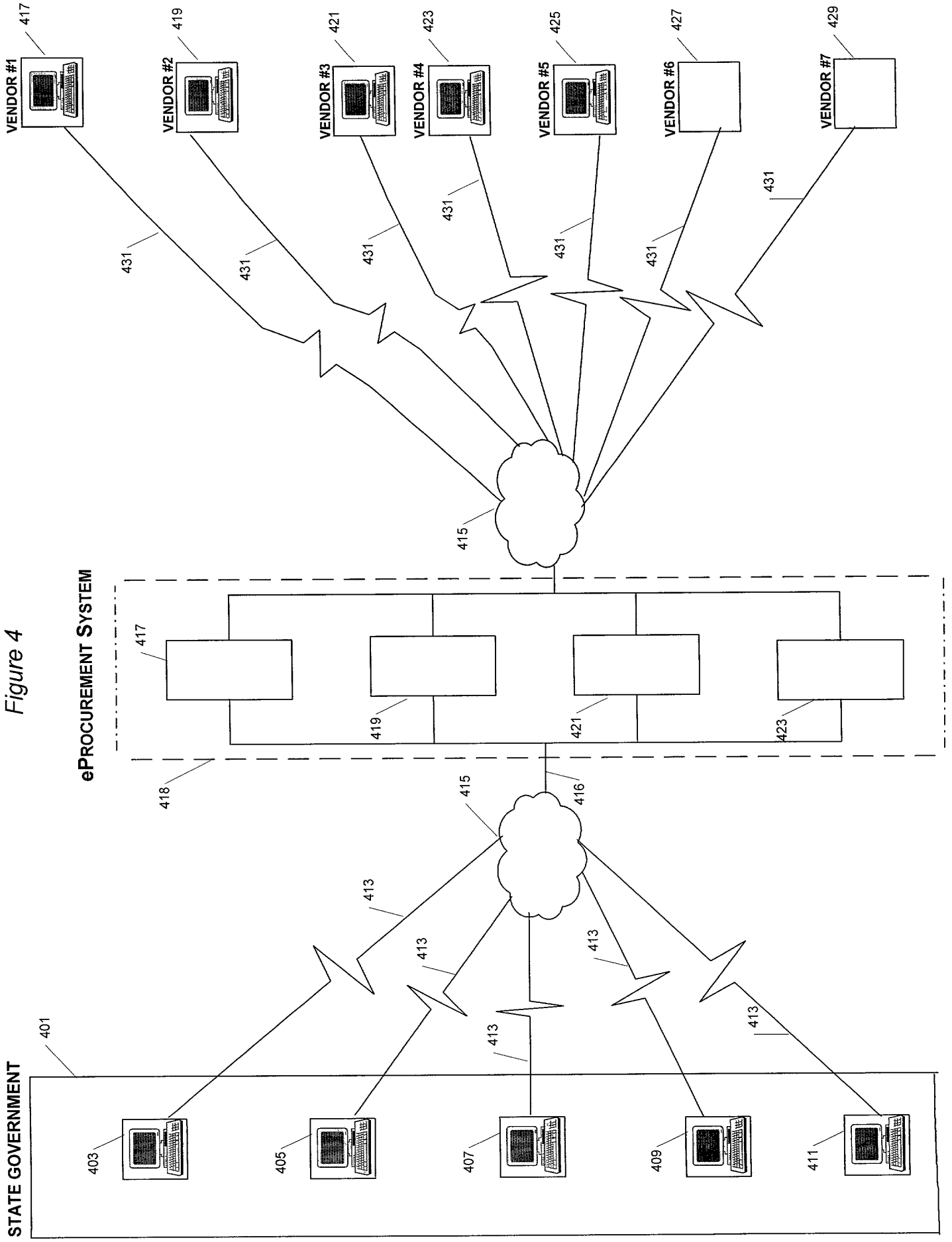


Figure 5

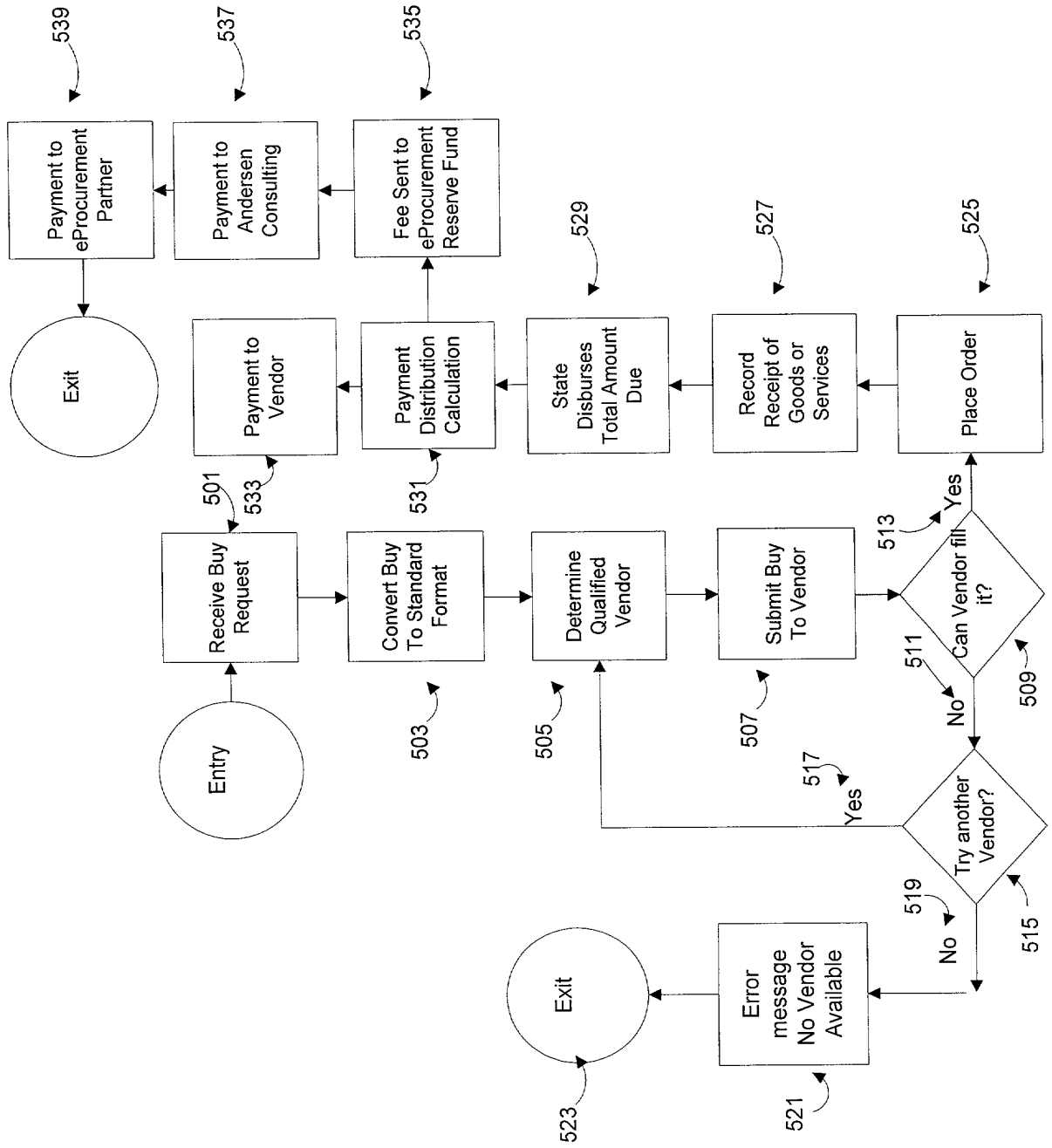


Figure 6
eProcurement Model

Overview

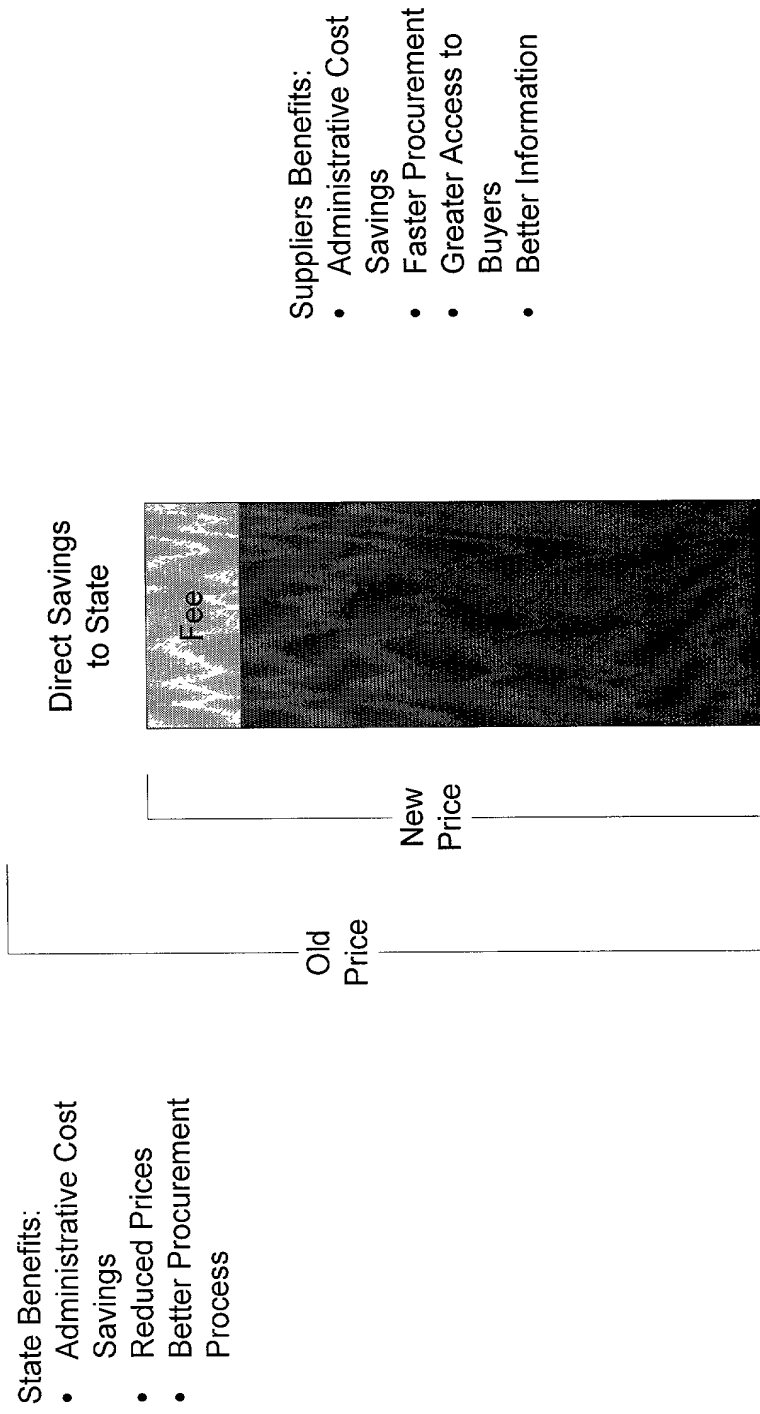


Figure 7

Business Model Overview

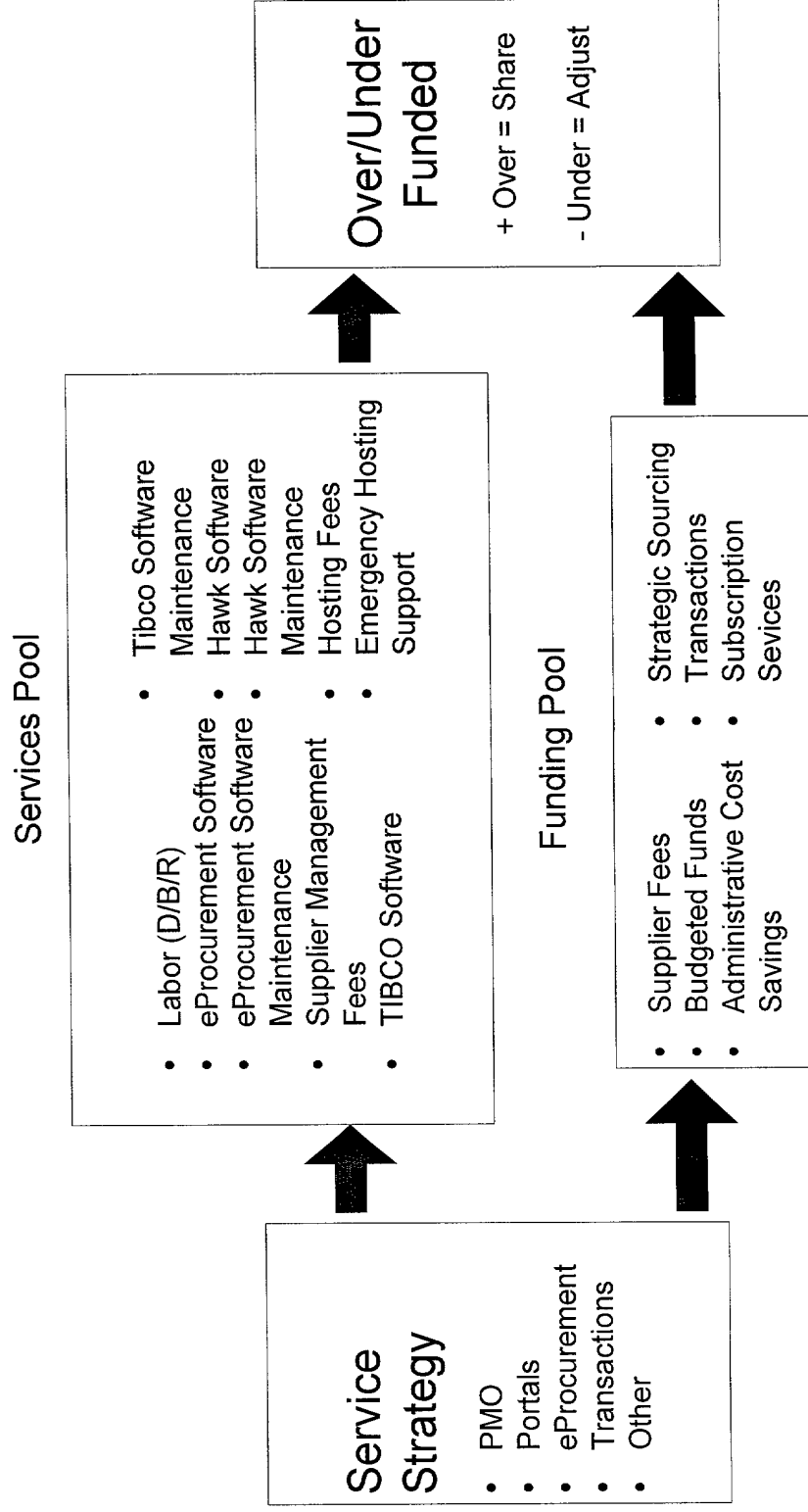
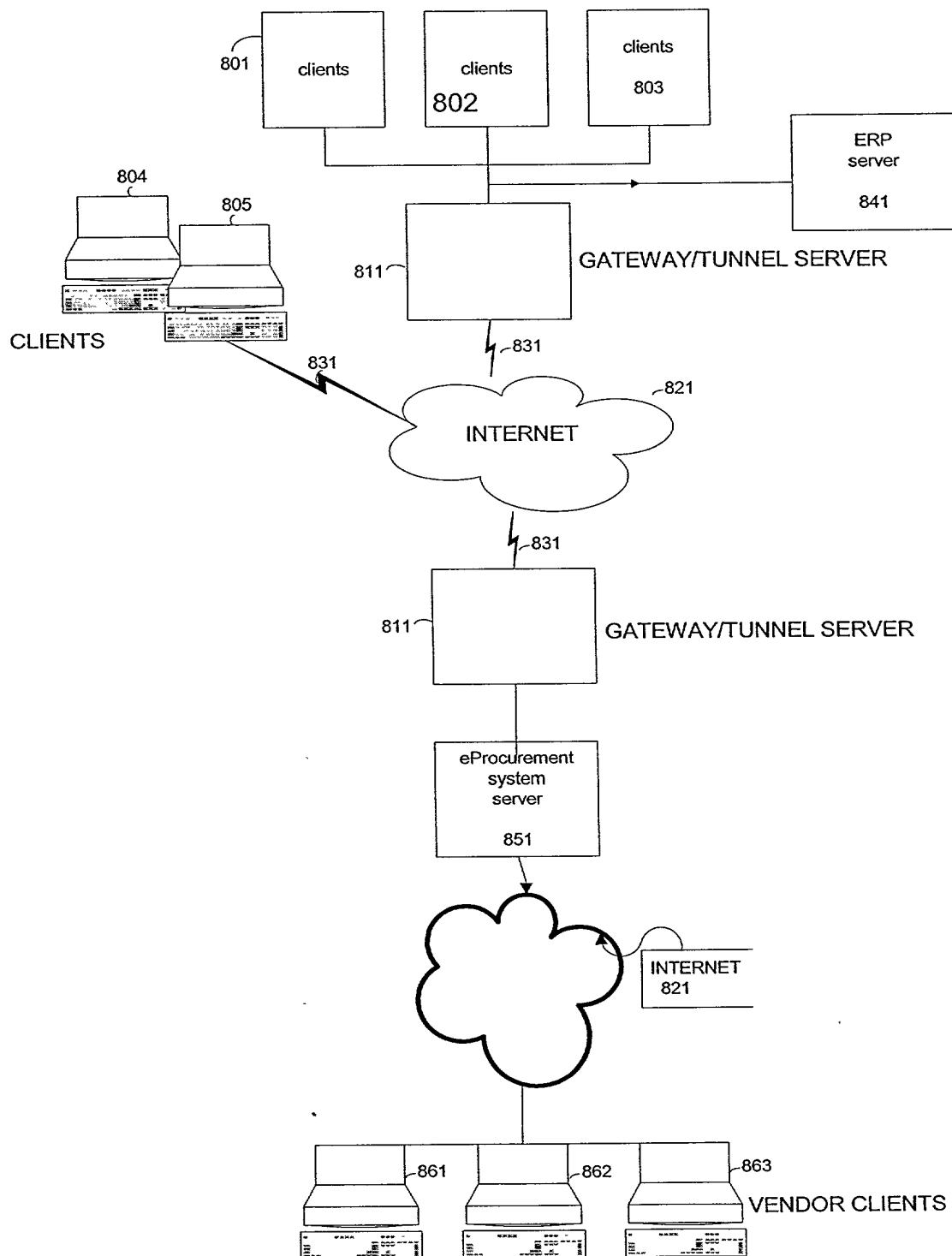


Figure 8
800 ⇒ eProcurement System Architecture



DECLARATION FOR UTILITY PATENT APPLICATION

AS A BELOW-NAMED INVENTOR, I HEREBY DECLARE THAT:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: A METHOD AND SYSTEM FOR AN ELECTRONIC PROCUREMENT SYSTEM FOR STATE GOVERNMENTS the specification of which is attached hereto unless the following box is checked:

☐ was filed on * as United States Application Serial No. or PCT International Application No. * and was amended on * (if applicable).

I HEREBY STATE THAT I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS, AS AMENDED BY ANY AMENDMENT REFERRED TO ABOVE.

I acknowledge the duty to disclose information which is material to the patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Application No.	Country	Date of Filing (day/month/year)	Priority Claimed?
			<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

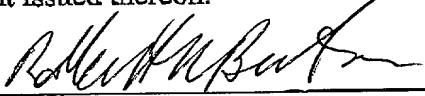
Application Serial No.	Filing Date

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

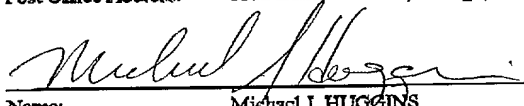
Application Serial No.	Filing Date	Status
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

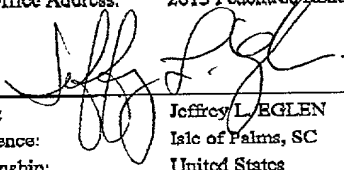
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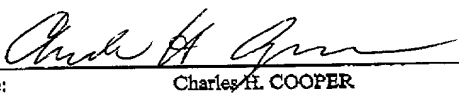
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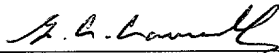
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Robert M. BERTON et al.

Serial No.: To Be Assigned

Filing Date: Herewith

For: A METHOD AND SYSTEM FOR AN
ELECTRONIC PROCUREMENT
SYSTEM FOR STATE
GOVERNMENTS

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

PROSECUTION BY ASSIGNEE AND POWER OF ATTORNEY
UNDER 37 C.F.R. § 3.71

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Andersen Consulting LLP, the assignee of the entire right, title and interest in this patent application, under 37 C.F.R. § 3.71 hereby appoints:

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all of Morrison & Foerster LLP, 425 Market Street, San Francisco, California 94105-2482, telephone (415) 268-7000, to prosecute this application and transact all matters in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorneys in accordance with the provisions of 37 C.F.R. § 3.71 provided that if any one of said attorneys or agents ceases being affiliated with the law firm of Morrison & Foerster as partner, employee or of counsel, such attorney's or agent's appointment as attorney or agent and all powers derived therefrom shall terminate on the date such attorney or agent ceases being so affiliated.

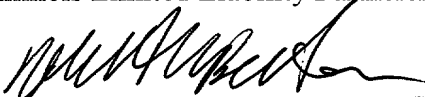
Please direct all written communications relative to this application to:

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San Francisco, California 94105-2482

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Andersen Consulting LLP
an Illinois Limited Liability Partnership

Dated: 8/30, 2000



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